

AMENDMENT TO THE CLAIMS

The following listing of claims will replace all prior versions, and listing of claims, in the present application. Please cancel Claim 19 without prejudice or waiver.

Listing of Claims

1. (Previously presented) A method for detecting a compound that affects cell proliferation comprising:

a) adding the compound to a first cell culture, the compound comprising unknown cellular proliferative activity;

b) measuring the amount of a HSPG in the first cell culture; and

c) comparing the amount of the HSPG in the first culture to the amount of the HSPG in a second culture not treated with the compound;

wherein an increase or decrease in the amount of the HSPG in the first cell culture as compared to the amount of the HSPG in the second cell culture indicates that the compound affects cell proliferation.

2. Canceled.

3. (Previously presented) The method of Claim 1, wherein the HSPG is perlecan, syndecan, or glypican.

4. (Previously presented) The method of Claim 1, wherein the HSPG is perlecan.

5. (Previously presented) The method of Claim 1, wherein the compound is a chemical element, molecule, mixture, emulsion, chemotherapeutic agent, pharmacological agent, hormone, antibody, growth factor, cellular factor, nucleic acid, protein, peptide, peptidomimetic, nucleotide, carbohydrate, and combinations, fragments, analogs or derivatives of such entities.

6-16. Canceled.

17. (Previously presented) The method of Claim 1, wherein the compound stimulates production of HSPG.

18. (Previously presented) The method of Claim 1, wherein the compound inhibits production of HSPG.

19. Canceled.

20. (Previously presented) The method of Claim 1, wherein the first cell culture and second cell culture are grown in serum-containing media.

21. (Previously presented) The method of Claim 1, wherein the first cell culture and second cell culture are grown in serum-free media.

22. (Previously presented) A method for detecting a compound that affects cell proliferation comprising:

(a) adding the compound to a first cell culture;

(b) measuring the amount of perlecan in the first cell culture; and

(c) comparing the amount of perlecan in the first cell culture to the amount of perlecan in a second cell culture not treated with the compound;

wherein an increase or decrease in the amount of perlecan in the first cell culture as compared to the amount of perlecan in the second cell culture indicates that the compound affects cell proliferation.

23. (Previously presented) A method for detecting a compound that affects cell proliferation comprising:

(a) adding the compound to a first cell culture;

(b) measuring the amount of syndecan in the first cell culture; and

(c) comparing the amount of syndecan in the first cell culture to the amount of syndecan in a second cell culture not treated with the compound;

wherein an increase or decrease in the amount of syndecan in the first cell culture as compared to the amount of syndecan in the second cell culture indicates that the compound affects cell proliferation.

24. (Previously presented) A method for detecting a compound that affects cell proliferation comprising:

(a) adding a the compound to a first cell culture;

(b) measuring the amount of glypcan in the first cell culture; and

(c) comparing the amount of glypcan in the first cell culture to the amount of glypcan in a second cell culture not treated with the compound;

wherein an increase or decrease in the amount of glypcan in the first cell culture as compared to the amount of glypcan in the second cell culture indicates that the compound affects cell proliferation.